Abstract

Gamma correction, color saturation, tint, brightness, and contrast correction are provided for digital YUV signals by use of video hardware or software in a personal

5   computer. The video hardware receives a digital YUV signal from a source such as a DVD player. An algorithm is empirically determined for the type of display device used to display the signal. A least-squares fit polynomial equation or a lookup table is used to determine a correction for displayed intensity by applying one or more corrections such as gamma correction, color saturation, tint, brightness, or contrast correction. The

10   resulting image is displayed with the proper gamma for both video source and display.